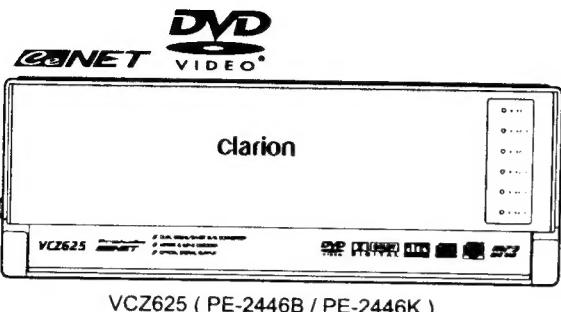
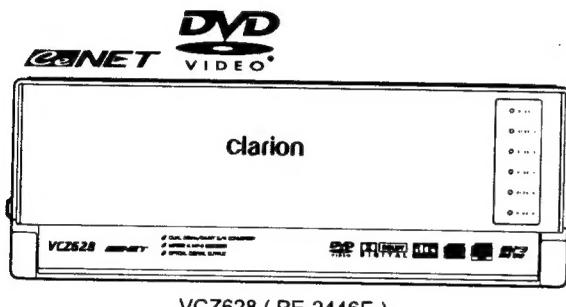


Service Manual



VCZ625 (PE-2446B / PE-2446K)



VCZ628 (PE-2446E)

6 Disc DVD / CD Changer

Model **VCZ625**

(PE-2446B / for U.S.A.)

(PE-2446K / for Other Countries)

Model **VCZ628**

(PE-2446E / for Europe)

■ SPECIFICATIONS

DVD player section

System:	Digital Versatile Disc system with CDDA capable
Usable discs:	DVD video disc, compact disc
Frequency response:	20Hz to 20kHz($\pm 1\text{dB}$)
Signal to noise ratio:	90dB
Distortion:	0.02%
Channel separation:	80dB
Analog audio output:	1.8Vrms

General

Power supply voltage:	DC14.4V (10.8V to 15.6V allowable)
Current consumption:	Negative ground
Dimensions(mm):	Less than 1.5A
Weight:	source unit: 230(W)×83(H)×183(D) remote control unit: 54(W)×27.2(H)×155(D) remote control receiver: 22(W)×41.5(H)×13.3(D) source unit: 2.2kg remote control unit: 130g(including battery) remote control receiver: 33g

■ NOTES

※ This unit is a ID3 Tag compatible model.

This unit supports the title, artist and album display of the ID3 Tag versions 1 and 1.1.

※ Only use the magazine, the Clarion Model CAA-397.

※ We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

※ Specifications and design are subject to change without notice for further improvement.

■ COMPONENTS

PE-2446B-A, E-A, K-A, K-B

Main unit	-----	1
Ce-NET cable(5m)	855-3416-50	1
Power cord(5m)	854-6390-01	1
Fuse(3A)	120-0030-00	1
Parts bag	-----	
Installation nut(M5)	722-0545-00	4
Installation bolt(M5×8)	734-5008-37	4
Clamping band	335-0833-01	2
Parts bag	-----	
Cushion rubber	345-7651-00	2
Bracket with bolt	300-9725-01	2
Bracket for installing the main unit (for vertical installation)	300-7909-00	2
(for horizontal installation)	300-7910-00	2
Batteries for remote control unit	-----	2
Remote control unit	RCB-161-600	1
CD magazine	CAA-397-900	1
Remote control receiver	CAA-372-301	1
RCA pin cord(audio,5m))(red/white)	855-5439-50	1
RCA pin cord(video,5m))(yellow)	855-5422-52	1
Ferrite core	060-8041-01	1

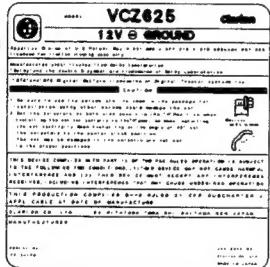
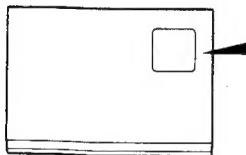
■ CAUTIONS

Use of controls, adjustment or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The COMPACT DISC player should not be adjusted or repaired by anyone except properly qualified service personnel.

(for U.S.A. model)

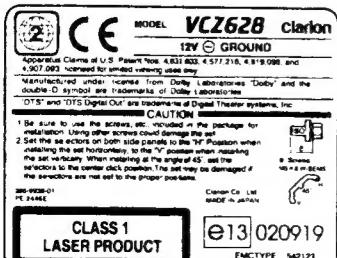
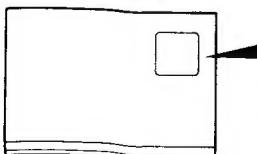
Bottom View of CD Changer Unit



This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not open the enclosure.

(for European model)

Bottom View of CD Changer Unit



■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.

If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through

the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

5. Note on region numbers

The DVD video system assigns a region number to DVD video players and DVD discs by sales area.

DVD video players sold in the United States can play back DVD discs with the region number "ALL", "1" or any combination of numbers that also incorporate a "1". The DVD video region number is marked on the disc jacket as shown below.



NTSC



NTSC



NTSC

6. TV color system

This DVD player plays NTSC discs and PAL discs only and cannot be used for playback of SECAM discs.

7. About MP3 playback

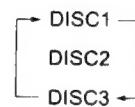
This unit can play back CD-R/CD-RW discs on which MP3 music data have been recorded.

8. Auto disc change

This unit auto disc changes only audio CDs.

For example:

If an audio CD is loaded in the DISC 1 slot, a DVD disc in the DISC 2 slot and an audio CD in the DISC 3 slot, disc change is performed shown below.



DVD VIDEO SYSTEM

1. Playable discs

This DVD video player can play the following discs.



When you play a CD Extra disc, only the first session will be recognized.

2. About CD Extra discs

A CD Extra disc is a disc in which a total of two sessions have been recorded.

The first session is Audio session and the second session is Data session.

Your personally-created CDs with more than 2 data sessions recorded cannot be played on this DVD video player.

3. About playing a CD-R/CD-RW disc

This player can play CD-R/CD-RW discs previously recorded in music CD format or video CD format.

4. Discs that cannot be played back

This DVD video player cannot play back DVD-R, DVD-RAM, Photo CDs, etc.

Notes:

It may also not be possible to play back CDs recorded on a CD-R unit and CD-RW unit.

(Cause: disc characteristics, cracks, dust/dirt, dust/dirt on players lens, etc.)

If a CD-R or CD-RW disc that has not been finalized is played, it will take a long time to start playing. Also, it may not be possible to play depending on its recording conditions.

■ ERROR DISPLAYS

If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

Error	Cause	Measure
MECHA ERROR	The failure of the changer itself considered.	This is a failure of the changer's mechanism.
DISC ERROR (ERROR 6)	1. A DVD/CD cannot be played due to scratches, etc. 2. A DVD/CD cannot be played due to the defective pick-up part. 3. The disc is placed up side down.	Replace with a non-scratched, non-wrapped-disc. Replace the disc with face up.
WRONG REGION	Disc region code incorrect.	Use a disc with the correct region code.
PARENTAL VIOLATION	The view is limited.	Release the view limitation or change the parental level.

If an error display other than the ones described above appears, press the reset button.

When the reset button is pressed, frequencies of TV/radio stations, titles, etc. stored in the memory are cleared.

■ TROUBLESHOOTING

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse 3A of the same amperage.
	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. When the reset button is pressed, turn off the ACC power.
	The setting of the CeNET/STAND ALONE select switch is not correct.	Set the switch to the correct position.
Nothing happens when buttons are pressed.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. When the reset button is pressed, turn off the ACC power.
Noise, skipping	The installation selector levers are set to different positions on both sides.	Set the installation selector levers to the same position on both sides.
	The unit installation direction and the installation selector lever positions do not match.	Set the unit installation direction and the installation selector lever positions to match each other. When installed at an angle, change the installation selector lever to a position (H, 45°, V) not prone to noise or sound loss.
	Disc bent or badly damaged.	Compare with another disc. If bad, discard the damaged disc.

■ EXPLANATION OF IC

052-5052-00 TMP95CW64F

Mechanism controller

1. Terminal Description

pin 1: A Vref	: IN: Reference voltage for the internal ADC.
pin 2: A VSS	: - : Analog ground.
pin 3: A VCC	: - : Positive supply voltage for the internal analog section.
pin 4: NU	: - : Not in use.
pin 5: NU	: - : Not in use.
pin 6: Connect pin 7	: IN: Connect to pin 7
pin 7: EJECT SW	: IN: The eject key input
pin 8: NU	: - : Not in use.
pin 9: SYS P 1	: O: System power 1 control signal output.
pin 10: NU	: - : Not in use.
pin 11: DSP RESET	: O: Reset signal output to the DSP IC
pin 12: T SO 0	: O: Test Mode Key Scan output
pin 13: T SO 1	: O: Test Mode Key Scan output
pin 14: T SO 2	: O: Test Mode Key Scan output
pin 15: T SO 3	: O: Test Mode Key Scan output
pin 16: LDM CW	: O: Loading motor control output
pin 17: LDM CCW	: O: Loading motor control output
pin 18: TX	: O: Serial data output.
pin 19: RX	: IN: Serial data input.
pin 20: DEC CS	: O: Chip select signal output to the decoder
pin 21: DSP CS	: O: Chip select signal output to the DSP
pin 22: NU	: - : Not in use
pin 23: MOTOR MUTE	: O: Mute signal output to the motor driver
pin 24: NU	: - : Not in use.
pin 25: VCC	: - : Positive supply voltage.
pin 26: VSS	: - : Negative supply voltage.
pin 27: X 1	: - : Crystal connection.
pin 28: X 2	: - : Crystal connection.
pin 29: CON VCC	: - : Connect to VCC.
pin 30: RESET	: IN: Reset signal input.
pin 31: ACC CONT	: IN: ACC control signal input
pin 32: NU	: - : Not in use.
pin 33: LOAD/EJECT	: - : LOAD/EJECT TIME
pin 34: FG PULSE	: IN: FG pulse input.
pin 35: SPIN BRAKE	: O: The brake command output to the spindle motor.
pin 36: NU	: - : Not in use.
pin 37: DSP INT	: IN: The interrupt command input from the DSP.
pin 38: NU	: - : Not in use.
pin 39: NU	: - : Not in use.
pin 40: NU	: - : Not in use.
pin 41: DEC INT	: IN: The interrupt command input from the decoder.
pin 42: NU	: - : Not in use.
pin 43: DEC RESET	: O: The reset signal output to the decoder
pin 44: VCC	: - : Positive supply voltage.
pin 45: M D 0	: I/O: Data bus to MPU
pin 46: M D 1	: I/O: Data bus to MPU
pin 47: M D 2	: I/O: Data bus to MPU
pin 48: M D 3	: I/O: Data bus to MPU
pin 49: M D 4	: I/O: Data bus to MPU
pin 50: M D 5	: I/O: Data bus to MPU
pin 51: M D 6	: I/O: Data bus to MPU
pin 52: M D 7	: I/O: Data bus to MPU
pin 53: T RD	: O: Test mode display control.
pin 54: T RW	: O: Test mode display control.
pin 55: T E	: O: Test mode display control.
pin 56: NU	: - : Not in use.
pin 57: T DB 4	: I/O: Test mode display control.
pin 58: T DB 5	: I/O: Test mode display control.
pin 59: T DB 6	: I/O: Test mode display control.
pin 60: T DB 7	: I/O: Test mode display control.
pin 61: CON VCC	: - : Connect to VCC.
pin 62: VSS	: - : Negative supply voltage.
pin 63: VCC	: - : Positive supply voltage.
pin 64: NU	: - : Not in use.

pin 65: DVD/CD	: O: DVD/CD distinction signal output.
pin 66: LAYER	: O: Layer distinction signal output.
pin 67: NU	: - : Not in use
pin 68: MG SW	: IN: Magazine switch input.
pin 69: POS SW	: IN: Datum point signal input to detect the disc number
pin 70: D NO SW	: IN: Disk number switch input
pin 71: 12/8	: IN: 12cm/8cm
pin 72: HOLDER	: IN: Holder switch input
pin 73: Load END	: IN: Loading end switch input
pin 74: D CW	: O: Up/down motor control signal output.
pin 75: D CCW	: O: Up/down motor control signal output.
pin 76: MA	: O: MA
pin 77: S DA	: I/O: The serial data input/output
pin 78: SCLK	: O: The clock pulse output
pin 79: A 8	: O: Address signal output.
pin 80: A 7	: O: Address signal output
pin 81: A 6	: O: Address signal output
pin 82: A 5	: O: Address signal output
pin 83: A 4	: O: Address signal output
pin 84: A 3	: O: Address signal output
pin 85: A 2	: O: Address signal output
pin 86: A 1	: O: Address signal output
pin 87: A 0	: O: Address signal output
pin 88: READ	: O: Read command output.
pin 89: WRITE	: O: Write command output
pin 90: NU	: - : Not in use.
pin 91: VSS	: - : Negative supply voltage.
pin 92: T SI 0	: IN: Test Mode Key Scan input
pin 93: T SI 1	: IN: Test Mode Key Scan input
pin 94: T SI 2	: IN: Test Mode Key Scan input
pin 95: T SI 3	: IN: Test Mode Key Scan input
pin 96: TM1I	: IN: Test Mode Select input
pin 97: TM2I	: IN: Test Mode Select input
pin 98: LIMIT SW	: IN: Inside limit switch input
pin 99: NU	: - : Not in use.
pin100: A Vref	: IN: Reference voltage for the internal ADC.

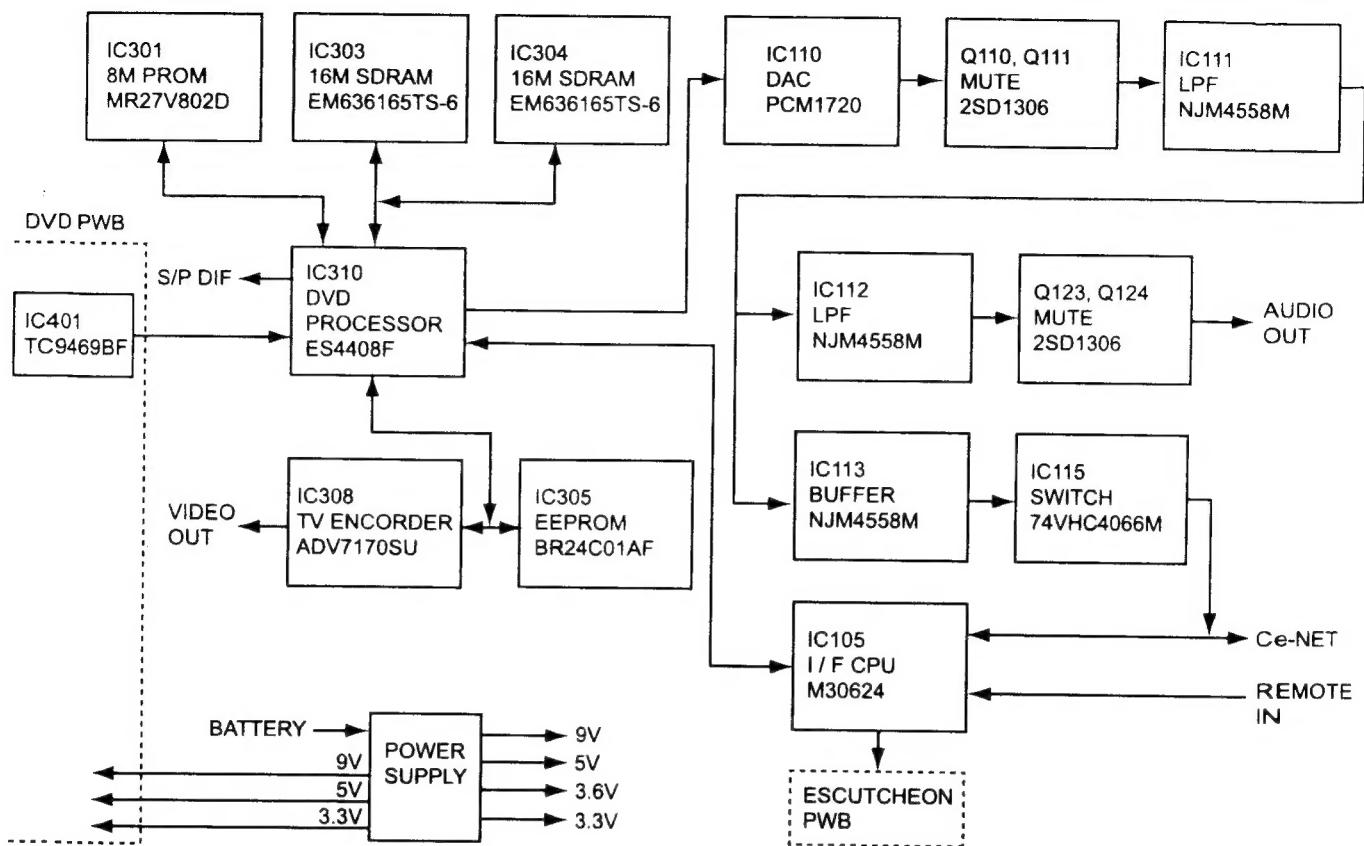
1 Terminal Description

pin 1: REMOTE IN :IN: Remote controller signal input.
 pin 2: NU : - : Not in use.
 pin 3: NU : - : Not in use.
 pin 4: NU : - : Not in use.
 pin 5: NU : - : Not in use.
 pin 6: CONN GND : - : Connect to the ground.
 pin 7: CONN GND : - : Connect to the ground.
 pin 8: NU : - : Not in use.
 pin 9: NU : - : Not in use.
 pin 10: RESET :IN: Reset signal input.
 pin 11: X OUT :O: Crystal connection.
 pin 12: GND : - : Ground.
 pin 13: X IN :IN: Crystal connection.
 pin 14: VCC : - : Positive supply voltage.
 pin 15: CON VCC : - : Connect to VCC.
 pin 16: BACKUP MONI :IN: Backup voltage detect signal input.
 pin 17: ACC MONI :IN: ACC monitor.
 pin 18: MG SW :IN: Magazine switch input.
 pin 19: Connect 27 : - : Connect to pin27.
 pin 20: NU : - : Not in use.
 pin 21: NU : - : Not in use.
 pin 22: STA/Ce-NET :IN: Stand alone/Ce-NET select signal input.
 pin 23: NU : - : Not in use.
 pin 24: NU : - : Not in use.
 pin 25: TEST :IN: For the test.
 pin 26: NU : - : Not in use.
 pin 27: Ce-NET DI :IN: Ce-NET Data input.
 pin 28: Ce-NET DO :O: Ce-NET Data output.
 pin 29: DEC DO :O: Decoder control signal output.
 pin 30: NU : - : Not in use.
 pin 31: DEC CLOCK O :O: Decoder control clock output.
 pin 32: NU : - : Not in use.
 pin 33: NU : - : Not in use.
 pin 34: DEC DI :IN: Decoder control signal input.
 pin 35: DEC CLOCK I :IN: Decoder control clock input.
 pin 36: NU : - : Not in use.
 pin 37: NU : - : Not in use.
 pin 38: NU : - : Not in use.
 pin 39: CONN GND : - : Connect to the ground.
 pin 40: NU : - : Not in use.
 pin 41: NU : - : Not in use.
 pin 42: NU : - : Not in use.
 pin 43: NU : - : Not in use.
 pin 44: CONN GND : - : Connect to the ground.
 pin 45: NU : - : Not in use.
 pin 46: NU : - : Not in use.
 pin 47: NU : - : Not in use.
 pin 48: NU : - : Not in use.
 pin 49: FE RESET :O: Reset pulse output to FE mechanism.
 pin 50: DEC RESET :O: The reset signal output to the decoder.
 pin 51: PON 2 :O: Power ON signal output.
 pin 52: PON 1 :O: Power ON signal output.
 pin 53: NU : - : Not in use.
 pin 54: NU : - : Not in use.
 pin 55: NU : - : Not in use.
 pin 56: Ce-NET A SW :O: Ce-NET Audio switch control output.
 pin 57: NTSC/PAL :IN: NTSC/PAL select signal input.
 pin 58: SYS P 1 :IN: System power 1 control signal input.
 pin 59: NU : - : Not in use.
 pin 60: VCC : - : Positive supply voltage.
 pin 61: ACC CONT :O: ACC control signal output.
 pin 62: GND : - : Ground.
 pin 63: NU : - : Not in use.
 pin 64: NU : - : Not in use.
 pin 65: NU : - : Not in use.
 pin 66: NU : - : Not in use.
 pin 67: NU : - : Not in use.
 pin 68: NU : - : Not in use.
 pin 69: EJECT :O: Eject signal output.

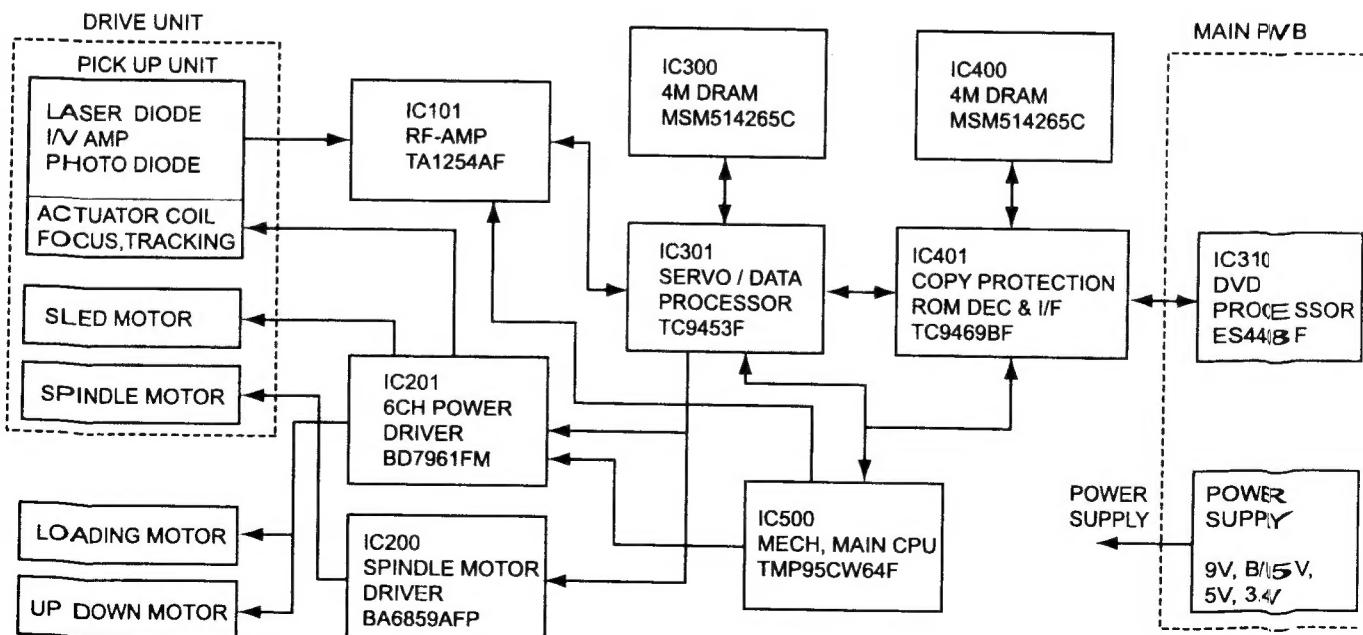
pin 70: NU : - : Not in use.
 pin 71: NU : - : Not in use.
 pin 72: POWER SW :IN: Power switch ON signal input.
 pin 73: MG Eject SW :IN: Magazine eject switch signal input.
 pin 74: NU : - : Not in use.
 pin 75: LANG :IN: Program language select signal input.
 pin 76: NU : - : Not in use.
 pin 77: NU : - : Not in use.
 pin 78: NU : - : Not in use.
 pin 79: NU : - : Not in use.
 pin 80: EJ LED :O: Eject LED control signal output.
 pin 81: ES LED DO :O: Serial data output to the escutcheon LED controller.
 pin 82: ES LED CK :O: Clock pulse output to the escutcheon LED controller.
 pin 83: ES LED LA :O: Latch pulse output to the escutcheon LED controller.
 pin 84: NU : - : Not in use.
 pin 85: NU : - : Not in use.
 pin 86: NU : - : Not in use.
 pin 87: NU : - : Not in use.
 pin 88: NU : - : Not in use.
 pin 89: NU : - : Not in use.
 pin 90: NU : - : Not in use.
 pin 91: NU : - : Not in use.
 pin 92: NU : - : Not in use.
 pin 93: NU : - : Not in use.
 pin 94: A VSS : - : Analog ground.
 pin 95: NU : - : Not in use.
 pin 96: Vref : - : Reference voltage.
 pin 97: A VCC : - : Positive supply voltage for the internal analog section.
 pin 98: NU : - : Not in use.
 pin 99: NU : - : Not in use.
 pin 100: NU : - : Not in use.

■ BLOCK DIAGRAM

Main section

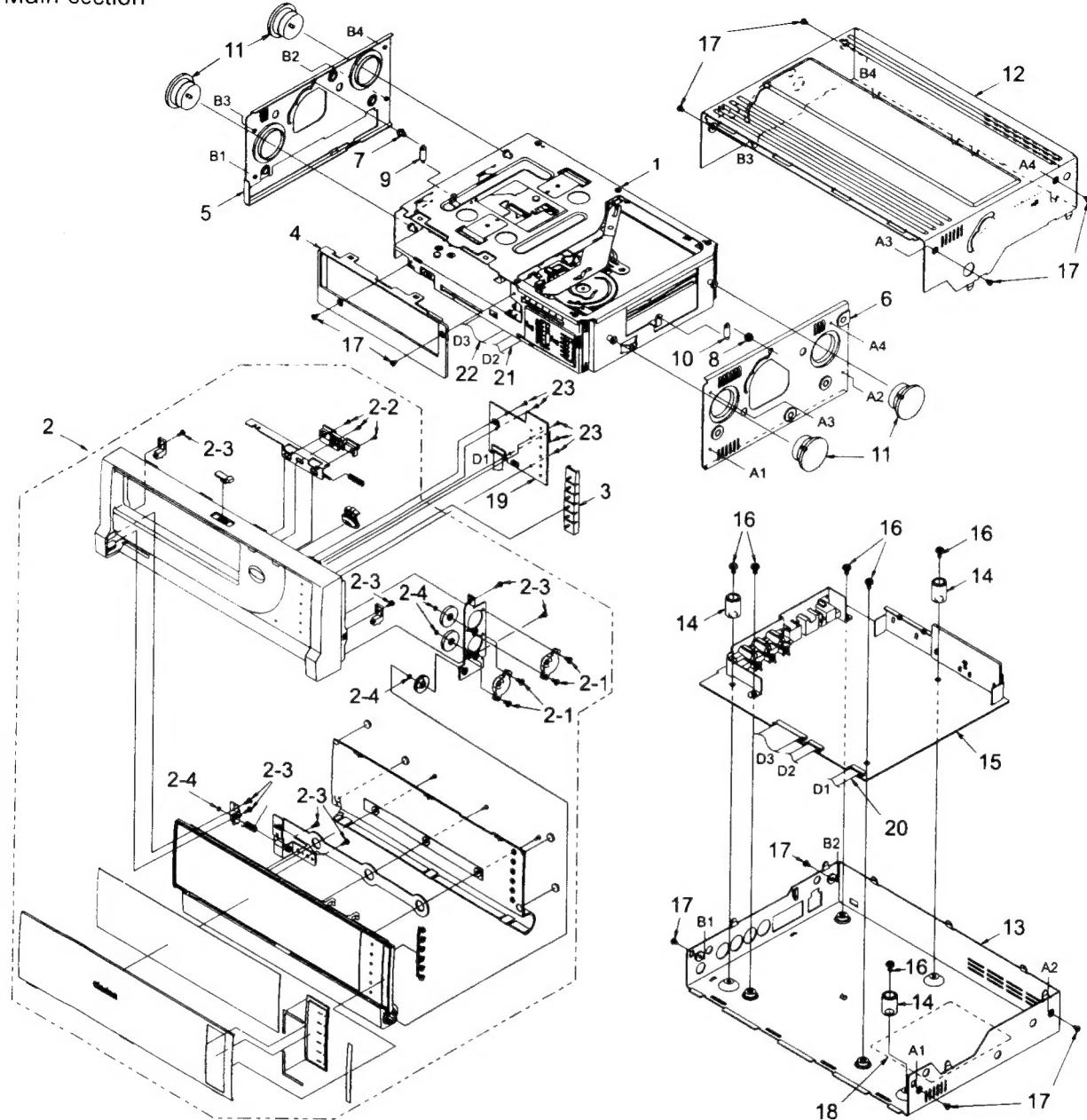


DVD changer mechanism section



■ EXPLODED VIEW • PARTS LIST

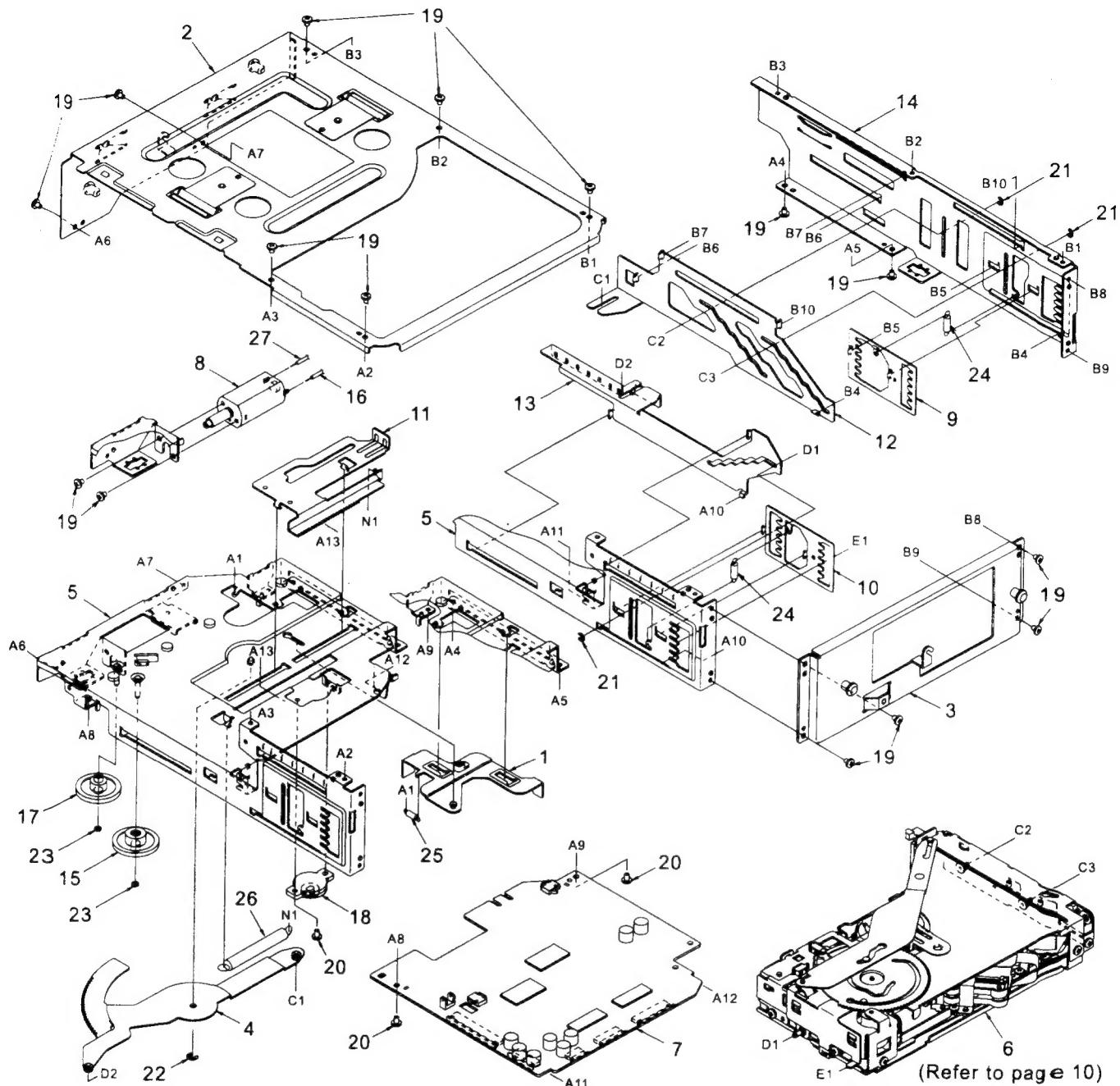
Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	-----	DVD CHANGER MECHANISM 220000929	1
2	940-7979-06 940-7997-03	ESCUTCHEON ASSY(VCZ625) ESCUTCHEON ASSY(VCZ628)	1
2-1	716-1670-00	SCREW(M2×4)	4
2-2	716-0872-00	PAD SCREW(M1.7×5 SILVER)	3
2-3	716-1758-00	PAD SCREW	8
2-4	746-0761-00	WASHER(Φ1.6 to 0.25)	4
3	335-6711-01	ILLUMI PARTS	1
4	371-5716-00	TRIM PLATE	1
5	620-1562-00	DAMPER PLATE-L	1
6	620-1563-00	DAMPER PLATE-R	1
7	622-1546-20	FL-PIN C	1
8	622-1545-20	FL-PIN R	1
9	750-3460-21	FL SPRING	1
10	750-3459-21	FL SPRING SR	1
11	629-0080-00	DAMPER GS-6	4

NO.	PART NO.	DESCRIPTION	Q'TY
12	310-1750-02	UPPER CASE	1
13	311-1847-02	LOWER CASE	1
14	335-6713-01	PIN	3
15	039-2123-02	MAIN PWB (WITHOUT COMPONENT)	1
16	716-0878-00	IT SCREW(M2.6×5)	6
17	716-1716-00	SCREW(M2×3)	10
18	286-9943-02 286-9936-01 286-9934-01 286-9968-00	SETPLATE(2446B) SETPLATE(2446E) SETPLATE(2446K-A) SETPLATE(2446K-B)	1
19	039-2124-00	ESCUTCHEON PWB (WITHOUT COMPONENT)	1
20	816-2580-00	FLAT WIRE(10P)	1
21	816-2578-00	FLAT WIRE(18P)	1
22	816-2579-00	FLAT WIRE(50P)	1
23	716-0872-00	PAD SCREW(M1.7×5 SILVER)	5

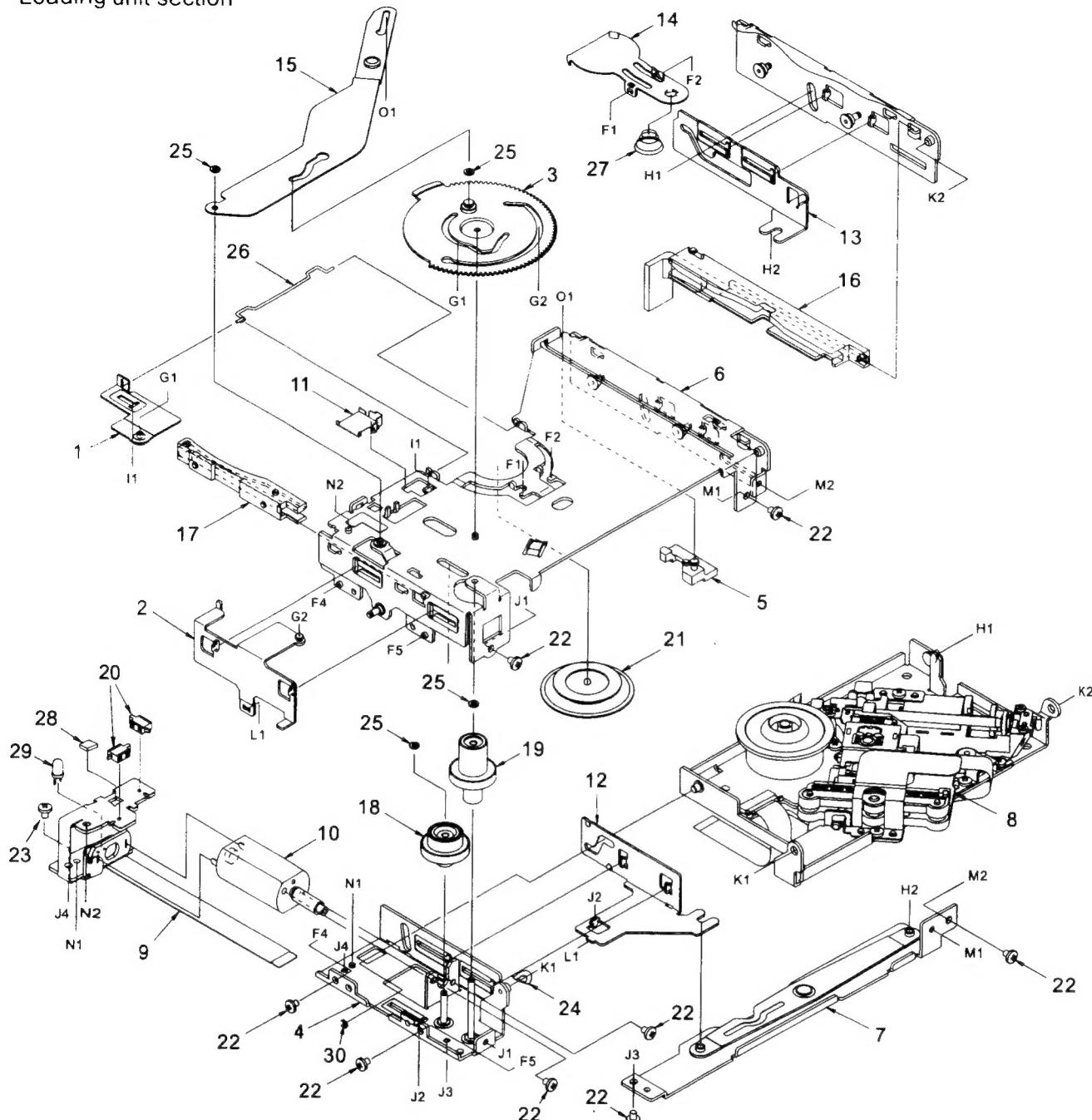
DVD changer mechanism section



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0590-20	MG-LO-P-ASSY	1
2	966-0631-21	UP-PLATE-ASSY	1
3	966-0632-20	REAR-PANEL-ASSY	1
4	966-0593-20	UD-GEAR-P-ASSY	1
5	966-0594-24	V-CHASSIS ASSY	1
6	-----	LOADING UNIT	1
7	039-2121-00	DVD PWB (WITHOUT COMPONENT)	1
8	SMA-180-100	MOTOR ASSY(UP/DOWN)	1
9	620-1016-20	GAP PLATE R	1
10	620-1017-20	GAP PLATE F	1
11	620-1018-20	MG EJECT PLATE	1
12	620-1019-20	SLIDE PLATE R	1
13	620-1020-21	SLIDE PLATE F	1
14	620-1034-24	SIDE PANEL	1

NO.	PART NO.	DESCRIPTION	Q'TY
15	621-0597-20	V-GEAR A	1
16	802-4906-60	VINYL-COAT-WIRE(RED)	1
17	621-0635-20	V-HELICAL GEAR	1
18	629-0061-00	GEAR DAMPER	1
19	716-0484-00	SCREW(M2×2.5)	15
20	716-1716-00	SCREW(M2×3)	3
21	743-1500-20	E-RING	3
22	743-2000-20	E-RING	1
23	746-0761-00	WASHER	2
24	750-3462-20	GAP SPRING	2
25	750-3463-20	MG LOCK SPRING	1
26	750-3464-20	MG EJECT SPRING	1
27	800-4906-60	VINYL-COAT-WIRE(BLK)	1

Loading unit section



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0583-20	DISC HOLD ASSY	1
2	966-0584-23	CLAMP-P-ASSY F	1
3	966-0585-22	CAM GEAR ASSY	1
4	966-0586-22	MOTOR-P-ASSY	1
5	966-0588-22	HOLDER-L-ASSY	1
6	966-0589-24	L-UPPER-P-ASSY	1
7	966-0623-23	L-LOWER-P-ASSY	1
8	HBS-519-100	DRIVE UNIT	1
9	O39-1950-20	LOADING PWB (WITHOUT COMPONENT)	1
10	SMA-188-100	MOTOR ASSY(LOADING)	1
11	620-1575-21	SWITCH PLATE	1
12	620-1007-22	CLAMP PLATE M	1
13	620-1008-24	CLAMP PLATE R	1
14	620-1009-22	CLAMPER PLATE	1
15	620-1031-21	LOADING ARM	1

NO.	PART NO.	DESCRIPTION	Q'TY
16	621-0630-22	HOLDER-G-RAIL R	1
17	621-0631-21	HOLDER-G-RAIL L	1
18	621-0703-20	L-GEAR A	1
19	621-0633-20	L-GEAR B	1
20	013-7413-50	DETECTOR SWITCH	2
21	621-0636-21	CLAMPER RING	1
22	716-0484-00	SCREW(M2×2.5)	8
23	716-1716-00	SCREW(M2×3)	1
24	745-0789-01	DRIVE WASHER	1
25	746-0761-00	WASHER	4
26	750-3461-21	DISC-H-SPRING	1
27	750-3492-22	CLAMPER SPRING	1
28	060-0252-01	PHOTO-TR	1
29	001-0563-00	LED	1
30	743-2000-20	E-RING	1

■ ELECTRICAL PARTS LIST

Main PWB(B1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C102	163-1063-35	16V10 μ F	C174	042-0635-52	6.3V47 μ F	C358	046-3332-78	0.033 μ F
C103	046-4722-58	4700pF	C175	046-2212-58	220pF	C359	046-1022-58	1000pF
C104	046-1022-58	1000pF	C176	046-1032-78	0.01 μ F	C360	046-1022-58	1000pF
C105	163-1073-35	16V100 μ F	C177	046-1032-78	0.01 μ F	C361	046-1022-58	1000pF
C106	163-1073-15	6.3V100 μ F	C178	046-1032-78	0.01 μ F	C362	046-1022-58	1000pF
C107	168-6832-78	0.068 μ F	C179	046-1032-78	0.01 μ F	C363	046-1022-58	1000pF
C108	046-1032-78	0.01 μ F	C180	046-1032-78	0.01 μ F	C364	046-1022-58	1000pF
C109	046-1032-78	0.01 μ F	C181	046-3332-78	0.033 μ F	C365	045-1011-50	100pF
C110	163-1073-15	6.3V100 μ F	C183	046-3332-78	0.033 μ F	C366	045-1011-50	100pF
C111	046-1032-78	0.01 μ F	C184	046-3332-78	0.033 μ F	C367	045-1011-50	100pF
C112	046-1032-78	0.01 μ F	C186	046-3332-78	0.033 μ F	C368	045-1011-50	100pF
C113	046-3332-78	0.033 μ F	C187	046-3332-78	0.033 μ F	C369	045-1011-50	100pF
C114	163-1063-35	16V10 μ F	C188	046-1022-58	1000pF	C370	045-1011-50	100pF
C115	163-1063-35	16V10 μ F	C189	046-3332-78	0.033 μ F	C371	045-1011-50	100pF
C116	046-1022-58	1000pF	C190	046-3332-78	0.033 μ F	C372	045-1011-50	100pF
C117	163-1063-35	16V10 μ F	C203	163-1073-35	16V100 μ F	C373	045-1011-50	100pF
C118	046-1032-78	0.01 μ F	C301	045-9097-50	9pF	C374	045-1011-50	100pF
C119	163-1063-35	16V10 μ F	C302	045-9097-50	9pF	C375	045-1011-50	100pF
C120	046-3332-78	0.033 μ F	C303	045-5601-50	56pF	C376	046-3332-78	0.033 μ F
C121	163-1063-35	16V10 μ F	C304	046-3312-58	330pF	C401	178-1052-78	1 μ F
C122	163-1063-35	16V10 μ F	C306	046-4712-58	470pF	C402	178-1052-78	1 μ F
C123	163-1063-35	16V10 μ F	C307	046-3332-78	0.033 μ F	C403	178-1052-78	1 μ F
C124	163-1063-35	16V10 μ F	C308	046-3332-78	0.033 μ F	C404	178-1052-78	1 μ F
C125	163-1063-35	16V10 μ F	C309	045-5601-50	56pF	C405	178-1052-78	1 μ F
C126	163-1073-35	16V100 μ F	C310	046-3312-58	330pF	C406	178-1052-78	1 μ F
C127	163-1073-15	6.3V100 μ F	C311	046-3332-78	0.033 μ F	C407	178-1052-78	1 μ F
C128	046-1032-78	0.01 μ F	C312	046-4712-58	470pF	C408	178-1052-78	1 μ F
C129	046-1032-78	0.01 μ F	C313	046-3332-78	0.033 μ F	CCT301	050-0122-61	1/16W82Ω \times 4 J
C130	045-1211-50	120pF	C314	046-3332-78	0.033 μ F	CCT302	050-0122-61	1/16W82Ω \times 4 J
C131	045-1211-50	120pF	C315	046-3332-78	0.033 μ F	CCT303	050-0122-61	1/16W82Ω \times 4 J
C132	045-2201-50	22pF	C316	046-3332-78	0.033 μ F	CCT304	050-0122-61	1/16W82Ω \times 4 J
C133	045-1211-50	120pF	C317	046-3332-78	0.033 μ F	CCT305	050-0122-61	1/16W82Ω \times 4 J
C134	046-1032-78	0.01 μ F	C318	046-3332-78	0.033 μ F	CCT306	050-0122-60	1/16W33Ω \times 4 J
C135	163-1073-35	16V100 μ F	C319	046-3332-78	0.033 μ F	CCT307	050-0122-60	1/16W33Ω \times 4 J
C136	045-1211-50	120pF	C320	046-3332-78	0.033 μ F	CCT308	050-0122-60	1/16W33Ω \times 4 J
C137	046-1032-78	0.01 μ F	C321	046-3332-78	0.033 μ F	CCT309	050-0122-60	1/16W33Ω \times 4 J
C138	045-2201-50	22pF	C322	168-1042-78	16V 0.1 μ F	CCT310	050-0122-60	1/16W33Ω \times 4 J
C139	045-2201-50	22pF	C323	046-3332-78	0.033 μ F	CCT311	050-0122-60	1/16W33Ω \times 4 J
C140	046-3332-78	0.033 μ F	C324	046-3332-78	0.033 μ F	CCT312	050-0122-61	1/16W82Ω \times 4 J
C142	163-1063-35	16V10 μ F	C325	046-3332-78	0.033 μ F	CCT313	050-0122-61	1/16W82Ω \times 4 J
C143	163-1063-35	16V10 μ F	C326	046-3332-78	0.033 μ F	CCT314	050-0122-61	1/16W82Ω \times 4 J
C144	042-0576-00	5.5V0.1F	C327	168-1042-78	16V 0.1 μ F	CCT315	050-0122-61	1/16W82Ω \times 4 J
C145	163-1073-15	6.3V100 μ F	C328	046-3332-78	0.033 μ F	D106	001-2620-90	RB060L-40
C146	046-1032-78	0.01 μ F	C329	046-3332-78	0.033 μ F	D107	001-0347-49	MA4100L
C147	046-1022-58	1000pF	C330	046-3332-78	0.033 μ F	D108	001-0504-32	HZS6A3L
C148	046-1022-58	1000pF	C331	046-3332-78	0.033 μ F	D109	001-0347-49	MA4100L
C149	163-2263-35	16V22 μ F	C332	046-3332-78	0.033 μ F	D110	001-2409-90	CRG01
C150	163-2263-35	16V22 μ F	C333	046-3332-78	0.033 μ F	D111	001-2409-90	CRG01
C151	163-2263-35	16V22 μ F	C334	163-1063-35	16V10 μ F	D112	001-0504-35	HZS6C2L
C152	163-2263-35	16V22 μ F	C335	163-1063-35	16V10 μ F	D113	001-0516-90	MA111
C153	046-1032-78	0.01 μ F	C336	046-3332-78	0.033 μ F	D114	001-0516-90	MA111
C154	163-2263-35	16V22 μ F	C337	046-3332-78	0.033 μ F	D115	001-0516-90	MA111
C155	163-2263-35	16V22 μ F	C338	046-3332-78	0.033 μ F	D116	001-0334-30	RL202
C156	163-2263-35	16V22 μ F	C339	046-3332-78	0.033 μ F	D117	001-0516-90	MA111
C157	184-4773-32	16V470 μ F	C340	046-3332-78	0.033 μ F	D118	001-0516-90	MA111
C158	172-1041-11	0.1 μ F	C341	046-3332-78	0.033 μ F	D119	001-0584-21	MA8062
C159	163-2263-35	16V22 μ F	C342	046-3332-78	0.033 μ F	D120	001-0584-21	MA8062
C160	173-4711-10	470pF	C343	046-3332-78	0.033 μ F	D121	001-0584-21	MA8062
C161	046-1032-78	0.01 μ F	C344	046-3332-78	0.033 μ F	D122	001-0584-21	MA8062
C162	184-1083-31	16V1000 μ F	C345	046-3332-78	0.033 μ F	D302	001-0367-91	1SS226
C163	184-1083-31	16V1000 μ F	C346	046-3332-78	0.033 μ F	D303	001-0367-91	1SS226
C164	046-2232-78	0.022 μ F	C347	045-1007-50	10pF	FIL111	060-3103-90	NFM839R ₂ G101B1
C165	168-1042-78	16V 0.1 μ F	C349	046-3332-78	0.033 μ F	FIL112	060-3103-90	NFM839R ₂ G101B1
C166	168-1042-78	16V 0.1 μ F	C350	046-3332-78	0.033 μ F	IC102	051-5407-18	S-80721SN-D J
C167	046-3332-78	0.033 μ F	C351	163-1063-35	16V10 μ F	IC103	051-7237-08	TC7W08F-EL
C168	046-3332-78	0.033 μ F	C352	163-1063-35	16V10 μ F	IC104	051-0869-58	NJM2103M
C169	046-3332-78	0.033 μ F	C353	046-3332-78	0.033 μ F	IC105	052-6057-00	M30624M8- F89GP
C170	046-3332-78	0.033 μ F	C354	046-3332-78	0.033 μ F	IC106	051-3218-90	TA76431F
C171	046-3332-78	0.033 μ F	C355	046-3332-78	0.033 μ F	IC107	051-3246-90	BA033FP
C172	046-3332-78	0.033 μ F	C356	046-3332-78	0.033 μ F	IC108	051-6600-38	CA0008AM
C173	046-3332-78	0.033 μ F	C357	046-3332-78	0.033 μ F	IC109	051-3243-00	PQ1CF1

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC110	051-6387-08	PCM1720E	Q121	125-0001-91	UN2111	R180	033-4721-15	1/16W 4.7kΩ
IC111	051-0350-93	NJM4558M	Q122	103-1683-00	2SD1683	R181	033-1031-15	1/16W 10kΩ
IC112	051-0350-93	NJM4558M	Q123	193-1306-00	2SD1306	R183	033-4721-15	1/16W 4.7kΩ
IC113	051-0350-93	NJM4558M	Q124	193-1306-00	2SD1306	R184	033-2731-15	1/16W 27kΩ
IC114	051-7243-08	TC7SET08F-TE85L	Q125	125-0001-91	UN2111	R185	033-2731-15	1/16W 27kΩ
IC115	051-7232-08	74VHC4066M	Q126	125-2005-91	UN2211	R186	033-1031-15	1/16W 10kΩ
IC116	051-7243-08	TC7SET08F-TE85L	R102	033-5621-15	1/16W 5.6kΩ	R187	033-1031-15	1/16W 10kΩ
IC117	051-7243-08	TC7SET08F-TE85L	R104	033-1041-15	1/16W 100kΩ	R188	033-1031-15	1/16W 10kΩ
IC301	052-6058-00	MR27V802D-37TPZA00	R105	033-3301-15	1/16W 33Ω	R192	033-8211-15	1/16W 820Ω
IC302	051-1443-09	TC7WU04F	R106	033-4721-15	1/16W 4.7kΩ	R193	033-1031-15	1/16W 10kΩ
IC303	051-9325-00	EM636165TS-6	R107	033-1041-15	1/16W 100kΩ	R195	033-1031-15	1/16W 10kΩ
IC304	051-9325-00	EM636165TS-6	R108	033-1041-15	1/16W 100kΩ	R196	033-1021-15	1/16W 1kΩ
IC305	051-9406-18	BR24C01AF-W-E2	R109	033-1041-15	1/16W 100kΩ	R197	033-3311-15	1/16W 330Ω
IC306	051-7256-08	SN74AHCT1G32	R110	033-0000-05	1/16W 0Ω(Ε-A,Κ-B)	R198	033-3311-15	1/16W 330Ω
		DCKR	R111	033-1041-15	1/16W 100kΩ	R199	033-1031-15	1/16W 10kΩ
IC307	051-7276-08	SN74AHCT273PWR	R112	033-1031-15	1/16W 10kΩ	R200	033-1031-15	1/16W 10kΩ
IC308	051-6442-00	ADV7170SU	R113	033-4721-15	1/16W 4.7kΩ	R201	033-1821-15	1/16W 1.8kΩ
IC310	051-6441-00	ES4408FD	R114	033-2221-15	1/16W 2.2kΩ	R202	033-1821-15	1/16W 1.8kΩ
IC312	051-7222-08	TC7SH08F-EL	R115	033-4731-15	1/16W 47kΩ	R203	033-1531-15	1/16W 15kΩ
J101	074-1201-60	10P	R116	033-4731-15	1/16W 47kΩ	R204	033-1011-15	1/16W 100Ω
J102	074-1201-68	18P	R117	033-1041-15	1/16W 100kΩ	R205	033-4701-15	1/16W 47Ω
J103	075-0374-00	JACK φ 3.5	R118	033-1031-15	1/16W 10kΩ	R206	033-1011-15	1/16W 100Ω
J104	074-1194-00	13P CE-NET	R119	033-1031-15	1/16W 10kΩ	R207	033-1011-15	1/16W 100Ω
J105	074-0884-03	4P	R120	033-1031-15	1/16W 10kΩ	R208	033-1011-15	1/16W 100Ω
J106	075-0386-00	JACK	R121	119-7501-15	1/16W 75Ω	R209	033-1041-15	1/16W 100kΩ
J301	074-1189-00	50P	R122	119-7501-15	1/16W 75Ω	R210	033-1041-15	1/16W 100kΩ
L101	010-3403-62	150 μH	R123	119-7501-15	1/16W 75Ω	R211	033-1041-15	1/16W 100kΩ
L102	010-2275-52	3.3 μH	R124	119-7501-15	1/16W 75Ω	R212	033-1041-15	1/16W 100kΩ
L103	010-2285-61	BLM21P300	R125	119-5121-15	1/16W 5.1kΩ	R213	033-1031-15	1/16W 10kΩ
L104	010-2285-61	BLM21P300	R126	119-3021-15	1/16W 3kΩ	R214	033-1011-15	1/16W 100Ω
L105	010-2285-61	BLM21P300	R127	033-1031-15	1/16W 10kΩ	R215	033-1011-15	1/16W 100Ω
L106	010-2285-65	BLM11P300SPT	R128	033-1021-15	1/16W 1kΩ	R220	033-1041-15	1/16W 100kΩ
L107	010-2285-65	BLM11P300SPT	R129	033-1041-15	1/16W 100kΩ	R221	033-1531-15	1/16W 15kΩ
L108	010-2285-65	BLM11P300SPT	R130	033-0000-05	1/16W 0Ω(Κ-A)	R222	033-3331-15	1/16W 33kΩ
L109	010-2285-65	BLM11P300SPT	R131	033-4731-15	1/16W 47kΩ	R223	033-3331-15	1/16W 33kΩ
L110	010-2285-65	BLM11P300SPT	R132	033-4731-15	1/16W 47kΩ	R224	033-2731-15	1/16W 27kΩ
L228	010-2285-80	BLM11B102SP	R133	033-4731-15	1/16W 47kΩ	R225	033-2731-15	1/16W 27kΩ
L230	010-2285-80	BLM11B102SP	R134	119-1831-15	1/16W 18kΩ	R226	033-1031-15	1/16W 10kΩ
L232	010-2285-80	BLM11B102SP	R135	033-8221-15	1/16W 8.2kΩ	R227	033-1031-15	1/16W 10kΩ
L234	010-2285-80	BLM11B102SP	R136	033-3321-15	1/16W 3.3kΩ	R229	119-0000-05	1/16W 0Ω JW
L237	010-2285-80	BLM11B102SP	R137	119-4321-15	1/16W 4.3kΩ	R231	119-0000-05	1/16W 0Ω JW
L239	010-2285-80	BLM11B102SP	R138	033-1041-15	1/16W 100kΩ	R233	119-0000-05	1/16W 0Ω JW
L241	010-2285-80	BLM11B102SP	R139	033-1241-15	1/16W 120kΩ	R235	119-0000-05	1/16W 0Ω JW
L242	010-2285-80	BLM11B102SP	R140	033-4731-15	1/16W 47kΩ	R236	119-0000-05	1/16W 0Ω JW
L244	010-2285-80	BLM11B102SP	R141	033-1541-15	1/16W 150kΩ	R238	119-0000-05	1/16W 0Ω JW
L246	010-2285-80	BLM11B102SP	R142	033-0000-05	1/16W 0Ω(Κ-B)	R240	119-0000-05	1/16W 0Ω JW
L248	010-2285-80	BLM11B102SP	R143	033-4721-15	1/16W 4.7kΩ	R243	119-0000-05	1/16W 0Ω JW
L250	010-2285-80	BLM11B102SP	R144	033-4731-15	1/16W 47kΩ	R245	119-0000-05	1/16W 0Ω JW
L301	010-3100-60	0.68 μH	R145	033-1041-15	1/16W 100kΩ	R247	119-0000-05	1/16W 0Ω JW
L302	010-3100-67	2.7 μH	R146	033-0000-05	1/16W 0Ω(Ε-A,Κ-A,Κ-B)	R249	119-0000-05	1/16W 0Ω JW
L303	010-3100-62	1.0 μH	R147	033-1021-15	1/16W 1kΩ	R251	119-0000-05	1/16W 0Ω JW
L304	010-3100-60	0.68 μH	R148	033-1021-15	1/16W 1kΩ	R301	033-4721-15	1/16W 4.7kΩ
L305	010-3100-67	2.7 μH	R152	033-4731-15	1/16W 47kΩ	R302	033-4721-15	1/16W 4.7kΩ
L306	010-3100-62	1.0 μH	R157	033-4731-15	1/16W 47kΩ	R303	033-3911-15	1/16W 390Ω
P101	075-0385-00	JACK	R158	033-2211-15	1/16W 220Ω	R305	033-1051-15	1/16W 1MΩ
P102	076-0478-62	12P	R159	033-4731-15	1/16W 47kΩ	R306	119-7501-15	1/16W 75Ω
Q101	125-2005-91	UN2211	R160	033-1011-15	1/16W 100Ω	R307	119-7501-15	1/16W 75Ω
Q102	193-1802-60	2SD1802FA-R.S.T	R161	033-1011-15	1/16W 100Ω	R308	119-7501-15	1/16W 75Ω
Q103	125-2005-91	UN2211	R162	033-8221-15	1/16W 8.2kΩ	R309	119-7501-15	1/16W 75Ω
Q104	125-2005-91	UN2211	R163	033-1031-15	1/16W 10kΩ	R310	119-7501-15	1/16W 75Ω
Q105	192-2712-00	2SC2712	R164	033-1031-15	1/16W 10kΩ	R311	033-1021-15	1/16W 1kΩ
Q106	125-2005-91	UN2211	R166	033-1031-15	1/16W 10kΩ	R312	033-1021-15	1/16W 1kΩ
Q108	125-2005-91	UN2211	R167	033-1231-15	1/16W 12kΩ	R313	119-7501-15	1/16W 75Ω
Q109	125-2005-91	UN2211	R168	033-1231-15	1/16W 12kΩ	R314	033-1511-15	1/16W 150Ω
Q110	193-1306-00	2SD1306	R169	033-3301-15	1/16W 33Ω	R316	033-0000-05	1/16W 0Ω
Q111	193-1306-00	2SD1306	R170	033-3301-15	1/16W 33Ω	R318	033-0000-05	1/16W 0Ω
Q112	125-0001-91	UN2111	R171	033-8211-15	1/16W 820Ω	R319	119-7501-15	1/16W 75Ω
Q113	103-1683-00	2SD1683	R172	033-8211-15	1/16W 820Ω	R320	119-7501-15	1/16W 75Ω
Q114	193-1664-00	2SD1664P,Q,R	R173	033-8211-15	1/16W 820Ω	R321	033-4721-15	1/16W 4.7kΩ
Q115	125-2005-91	UN2111	R174	033-3331-15	1/16W 33kΩ	R322	033-4721-15	1/16W 4.7kΩ
Q116	125-0001-91	UN2111	R175	033-3301-15	1/16W 33Ω	R323	033-3301-15	1/16W 33Ω
Q118	193-1664-00	2SD1664P,Q,R	R176	033-3331-15	1/16W 33kΩ	R324	033-3301-15	1/16W 33Ω
Q120	125-2005-91	UN2111	R179	033-2211-15	1/16W 220Ω	R328	033-4701-15	1/16W 47Ω
			R179	033-2211-15	1/16W 220Ω	R330	033-4721-15	1/16W 4.7kΩ

REF No.	PART No.	DESCRIPTION
R331	033-4721-15	1/16W 4.7kΩ
R332	033-4701-15	1/16W 47Ω
R333	033-4701-15	1/16W 47Ω
R334	033-4701-15	1/16W 47Ω

REF No.	PART No.	DESCRIPTION
R335	119-0000-05	1/16W 0Ω JW
R407	116-0000-05	1/8W 0Ω
S102	013-5112-00	SSSS223200
T101	009-0621-07	CHOKE

REF No.	PART No.	DESCRIPTION
X101	060-1505-50	10MHz
X301	061-3523-90	27MHz

Escutcheon PWB(B2) section

REF No.	PART No.	DESCRIPTION
C1	046-1032-78	0.01 μF
D101	001-7045-92	CL-165HR/YG-D-T
D102	001-7045-92	CL-165HR/YG-D-T
D103	001-7045-92	CL-165HR/YG-D-T
D104	001-7045-92	CL-165HR/YG-D-T
D105	001-7045-92	CL-165HR/YG-D-T
D106	001-7045-92	CL-165HR/YG-D-T
D107	001-7064-91	CL-170YG-CD-T
IC1	051-6633-08	BU2092F-E2

REF No.	PART No.	DESCRIPTION
J1	074-1201-60	10P
R1	033-3311-15	1/16W 330Ω
R2	033-3311-15	1/16W 330Ω
R3	033-3311-15	1/16W 330Ω
R4	033-3311-15	1/16W 330Ω
R5	033-3311-15	1/16W 330Ω
R6	033-3311-15	1/16W 330Ω
R7	033-3311-15	1/16W 330Ω
R8	033-3311-15	1/16W 330Ω

REF No.	PART No.	DESCRIPTION
R9	033-3311-15	1/16W 330Ω
R10	033-3311-15	1/16W 330Ω
R11	033-3311-15	1/16W 330Ω
R12	033-3311-15	1/16W 330Ω
R13	033-3311-15	1/16W 330Ω
S1	013-6308-60	SKQYYA
S2	013-6308-60	SKQYYA

DVD PWB(B3) section

REF No.	PART No.	DESCRIPTION
C100	046-1032-78	0.01 μF
C101	042-0397-50	16V1 μF TAN
C102	046-1032-78	0.01 μF
C103	046-1032-78	0.01 μF
C104	046-1032-78	0.01 μF
C105	046-1032-78	0.01 μF
C106	046-1022-58	1000pF
C107	168-1042-78	16V 0.1 μF
C108	042-0416-52	10V10 μF TAN
C109	168-1042-78	16V 0.1 μF
C110	168-1042-78	16V 0.1 μF
C111	163-1073-15	6.3V100 μF
C112	168-1042-78	16V 0.1 μF
C113	046-4722-58	4700pF
C114	045-1007-50	10pF
C115	168-1042-78	16V 0.1 μF
C116	163-1073-15	6.3V100 μF
C117	046-4722-58	4700pF
C118	046-4722-58	4700pF
C119	168-1042-78	16V 0.1 μF
C120	046-3312-58	330 μF
C121	042-0416-52	10V10 μF TAN
C122	045-1007-50	10pF
C123	168-1042-78	16V 0.1 μF
C124	168-1042-78	16V 0.1 μF
C125	046-1022-58	1000pF
C126	046-1022-58	1000pF
C127	042-0397-54	10V2.2 μF TAN
C128	168-1042-78	16V 0.1 μF
C129	042-0416-52	10V10 μF TAN
C130	168-1042-78	16V 0.1 μF
C131	042-0416-52	10V10 μF TAN
C200	168-1042-78	16V 0.1 μF
C201	168-1042-78	16V 0.1 μF
C202	168-1042-78	16V 0.1 μF
C203	168-1042-78	16V 0.1 μF
C204	168-1042-78	16V 0.1 μF
C205	168-1042-78	16V 0.1 μF
C206	168-1042-78	16V 0.1 μF
C207	168-1042-78	16V 0.1 μF
C208	168-1042-78	16V 0.1 μF
C209	168-1042-78	16V 0.1 μF
C210	168-1042-78	16V 0.1 μF
C300	168-1042-78	16V 0.1 μF
C301	168-1042-78	16V 0.1 μF
C302	168-1042-78	16V 0.1 μF
C303	046-6822-58	6800pF
C304	046-3322-58	3300pF
C305	042-0416-52	10V10 μF TAN
C306	045-1011-50	100pF
C307	168-1042-78	16V 0.1 μF
C308	046-4712-58	470pF
C309	046-4722-58	4700pF

REF No.	PART No.	DESCRIPTION
C310	046-4722-58	4700pF
C311	046-3312-58	330 μF
C312	046-3312-58	330 μF
C313	046-3312-58	330 μF
C314	046-3312-58	330 μF
C315	168-1545-56	0.15 μF
C316	168-1042-78	16V 0.1 μF
C317	168-1042-78	16V 0.1 μF
C318	168-1042-78	16V 0.1 μF
C319	168-1042-78	16V 0.1 μF
C320	168-1042-78	16V 0.1 μF
C321	168-1042-78	16V 0.1 μF
C322	168-1042-78	16V 0.1 μF
C323	168-1042-78	16V 0.1 μF
C324	168-1042-78	16V 0.1 μF
C325	168-1042-78	16V 0.1 μF
C326	042-0416-52	10V10 μF TAN
C327	168-1042-78	16V 0.1 μF
C328	046-2222-58	2200pF
C329	046-1022-58	1000pF
C330	046-1532-78	0.015 μF
C400	168-1042-78	16V 0.1 μF
C401	168-1042-78	16V 0.1 μF
C402	168-1042-78	16V 0.1 μF
C403	045-1007-50	10pF
C500	163-1073-35	16V100 μF
C501	163-1073-15	6.3V100 μF
C502	163-1073-15	6.3V100 μF
C503	163-1073-15	6.3V100 μF
C504	163-1073-15	6.3V100 μF
C505	163-1073-15	6.3V100 μF
C506	046-1032-78	0.01 μF
C507	168-1042-78	16V 0.1 μF
C508	168-1042-78	16V 0.1 μF
C509	168-1042-78	16V 0.1 μF
CCT500	050-0122-60	1/16W33Ω×4 J
CCT501	050-0122-60	1/16W33Ω×4 J
CCT502	050-0122-60	1/16W33Ω×4 J
CCT503	050-0122-60	1/16W33Ω×4 J
CCT504	050-0122-57	1/16W100Ω×4 J
D100	001-0367-91	ISS226
D101	001-0367-91	ISS226
D300	001-0356-96	ISS181
D500	001-0367-91	ISS226
IC100	051-3014-90	NJM2115M
IC101	051-5705-00	TA1254AF
IC200	051-6058-08	BA6859AFP
IC201	051-6060-08	BD7961FM-E2
IC300	051-9315-00	MSM514265C-5OTS-K
IC301	051-6351-00	TC9453F
IC400	051-9315-00	MSM514265C-5OTS-K

REF No.	PART No.	DESCRIPTION
IC401	051-6352-00	TC9469BF
IC500	052-5052-00	TMP95CW64F
IC501	051-5806-00	GP1S94
IC502	051-9416-08	BR24C02F-W-E2
J100	074-1059-80	30P
J101	076-0478-55	PLUG
J200	074-1158-58	8P
J201	074-1201-68	18P
J500	074-1201-68	18P
J501	074-1189-00	50P
J502	076-0478-55	PLUG
J503	076-0478-62	12P
J504	076-0478-57	7P
L100	010-3050-93	10 μH
L101	010-3050-93	10 μH
L500	010-2275-52	3.3 μH
L501	010-2275-52	3.3 μH
Q100	131-1188-50	2SB1188PQR
Q101	131-1188-50	2SB1188PQR
R100	033-3331-15	1/16W 33kΩ
R101	033-3331-15	1/16W 33kΩ
R102	033-1021-15	1/16W 1kΩ
R103	033-1001-15	1/16W 10Ω
R104	033-2731-15	1/16W 27kΩ
R105	033-1041-15	1/16W 100kΩ
R106	033-1041-15	1/16W 100kΩ
R107	033-1001-15	1/16W 10Ω
R108	033-1021-15	1/16W 1kΩ
R109	033-5601-15	1/16W 56Ω
R110	033-5601-15	1/16W 56Ω
R111	033-1031-15	1/16W 10kΩ
R200	119-4701-15	1/16W 47Ω
R201	032-0104-70	1/4W 1Ω
R202	032-0104-70	1/4W 1Ω
R203	033-1031-15	1/16W 10kΩ
R204	033-1031-15	1/16W 10kΩ
R206	033-3321-15	1/16W 3.3kΩ
R207	033-2221-15	1/16W 2.2kΩ
R208	033-1021-15	1/16W 1kΩ
R209	119-4701-15	1/16W 47Ω
R210	033-1031-15	1/16W 10kΩ
R211	033-1531-15	1/16W 15kΩ
R212	033-1031-15	1/16W 10kΩ
R213	033-2231-15	1/16W 22kΩ
R300	033-5631-15	1/16W 56kΩ
R301	033-2731-15	1/16W 27kΩ
R302	033-5631-15	1/16W 56kΩ
R303	033-2731-15	1/16W 27kΩ
R304	033-1541-15	1/16W 150kΩ
R305	033-1541-15	1/16W 150kΩ
R306	033-1021-15	1/16W 1kΩ
R307	033-1021-15	1/16W 1kΩ
R308	033-1021-15	1/16W 1kΩ

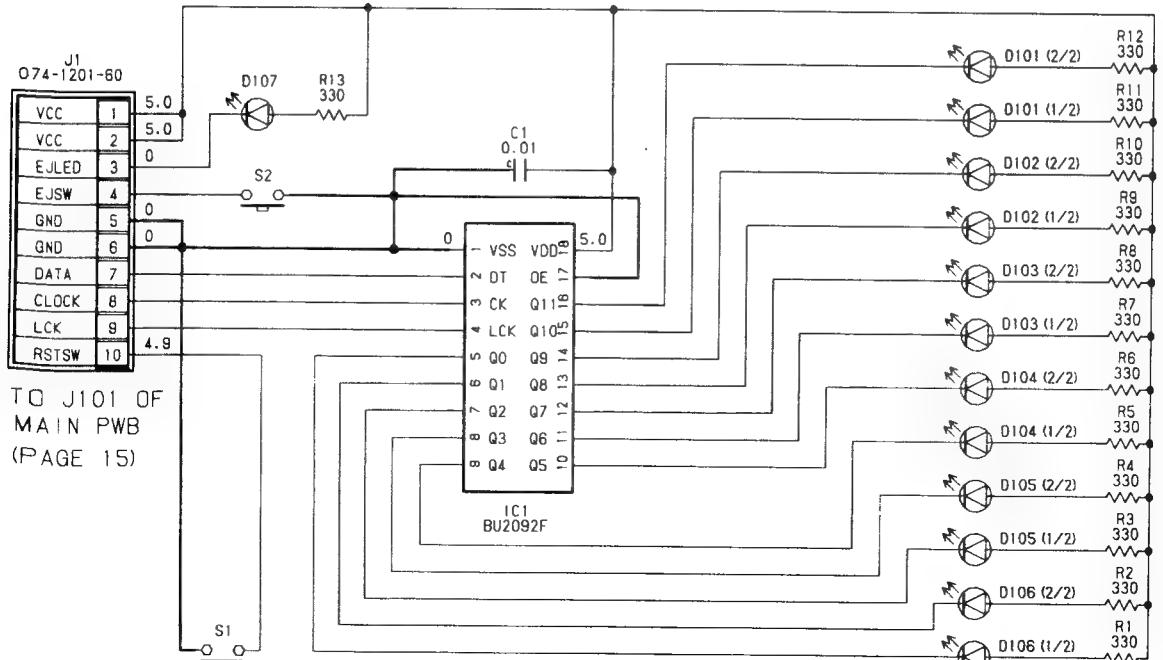
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R309	033-1021-15	1/16W 1kΩ	R337	033-2211-15	1/16W 220Ω	R517	033-8201-15	1/16W 82Ω
R310	033-1031-15	1/16W 10kΩ	R338	033-1521-15	1/16W 1.5kΩ	R518	033-1031-15	1/16W 10kΩ
R311	033-1031-15	1/16W 10kΩ	R339	033-4741-15	1/16W 470kΩ	R519	033-4731-15	1/16W 47kΩ
R312	033-1041-15	1/16W 100kΩ	R340	033-4721-15	1/16W 4.7kΩ	R520	033-4731-15	1/16W 47kΩ
R313	033-5621-15	1/16W 5.6kΩ	R341	033-1051-15	1/16W 1MΩ	R521	033-4731-15	1/16W 47kΩ
R314	033-1031-15	1/16W 10kΩ	R400	033-1051-15	1/16W 1MΩ	R522	033-4731-15	1/16W 47kΩ
R315	033-1031-15	1/16W 10kΩ	R401	033-1521-15	1/16W 1.5kΩ	R523	033-4731-15	1/16W 47kΩ
R316	033-1031-15	1/16W 10kΩ	R402	033-4731-15	1/16W 47kΩ	R524	033-4721-15	1/16W 4.7kΩ
R317	033-1031-15	1/16W 10kΩ	R403	033-0000-05	1/16W 0Ω	R525	033-1031-15	1/16W 10kΩ
R318	033-4731-15	1/16W 47kΩ	R404	033-1031-15	1/16W 10kΩ	R526	033-3311-15	1/16W 330Ω
R319	033-4731-15	1/16W 47kΩ	R500	033-1041-15	1/16W 100kΩ	R527	033-3311-15	1/16W 330Ω
R320	033-5621-15	1/16W 5.6kΩ	R501	033-4731-15	1/16W 47kΩ	R528	033-2711-15	1/16W 270Ω
R321	033-1031-15	1/16W 10kΩ	R502	033-1051-15	1/16W 1MΩ	R529	033-1021-15	1/16W 1kΩ
R322	033-1031-15	1/16W 10kΩ	R503	033-1021-15	1/16W 1kΩ	R530	033-1021-15	1/16W 1kΩ
R323	033-1031-15	1/16W 10kΩ	R504	033-1041-15	1/16W 100kΩ	R531	033-1041-15	1/16W 100kΩ
R324	033-1031-15	1/16W 10kΩ	R505	033-4721-15	1/16W 4.7kΩ	R532	033-4731-15	1/16W 47kΩ
R325	033-1031-15	1/16W 10kΩ	R506	033-4721-15	1/16W 4.7kΩ	R533	033-4731-15	1/16W 47kΩ
R326	033-1031-15	1/16W 10kΩ	R507	033-2201-15	1/16W 22Ω	R534	033-4731-15	1/16W 47kΩ
R327	033-2211-15	1/16W 220Ω	R508	033-8201-15	1/16W 82Ω	S500	013-7404-50	DETECTOR
R328	033-4731-15	1/16W 47kΩ	R509	033-8201-15	1/16W 82Ω			SWITCH
R329	033-3321-15	1/16W 3.3kΩ	R510	033-1031-15	1/16W 10kΩ	S501	013-7404-50	DETECTOR
R330	033-1031-15	1/16W 10kΩ	R511	033-1031-15	1/16W 10kΩ			SWITCH
R331	033-1531-15	1/16W 15kΩ	R512	033-4731-15	1/16W 47kΩ	X300	060-1524-90	CSTCW2257MX03
R333	033-5631-15	1/16W 56kΩ	R513	033-8201-15	1/16W 82Ω	X400	060-1526-90	CSTCW5000MX01
R334	033-1031-15	1/16W 10kΩ	R514	033-1031-15	1/16W 10kΩ	X500	060-1525-90	CSACW2500MX01
R335	033-1031-15	1/16W 10kΩ	R515	033-2201-15	1/16W 22Ω			
R336	033-2211-15	1/16W 220Ω	R516	033-1031-15	1/16W 10kΩ			

Loading PWB(B4) section

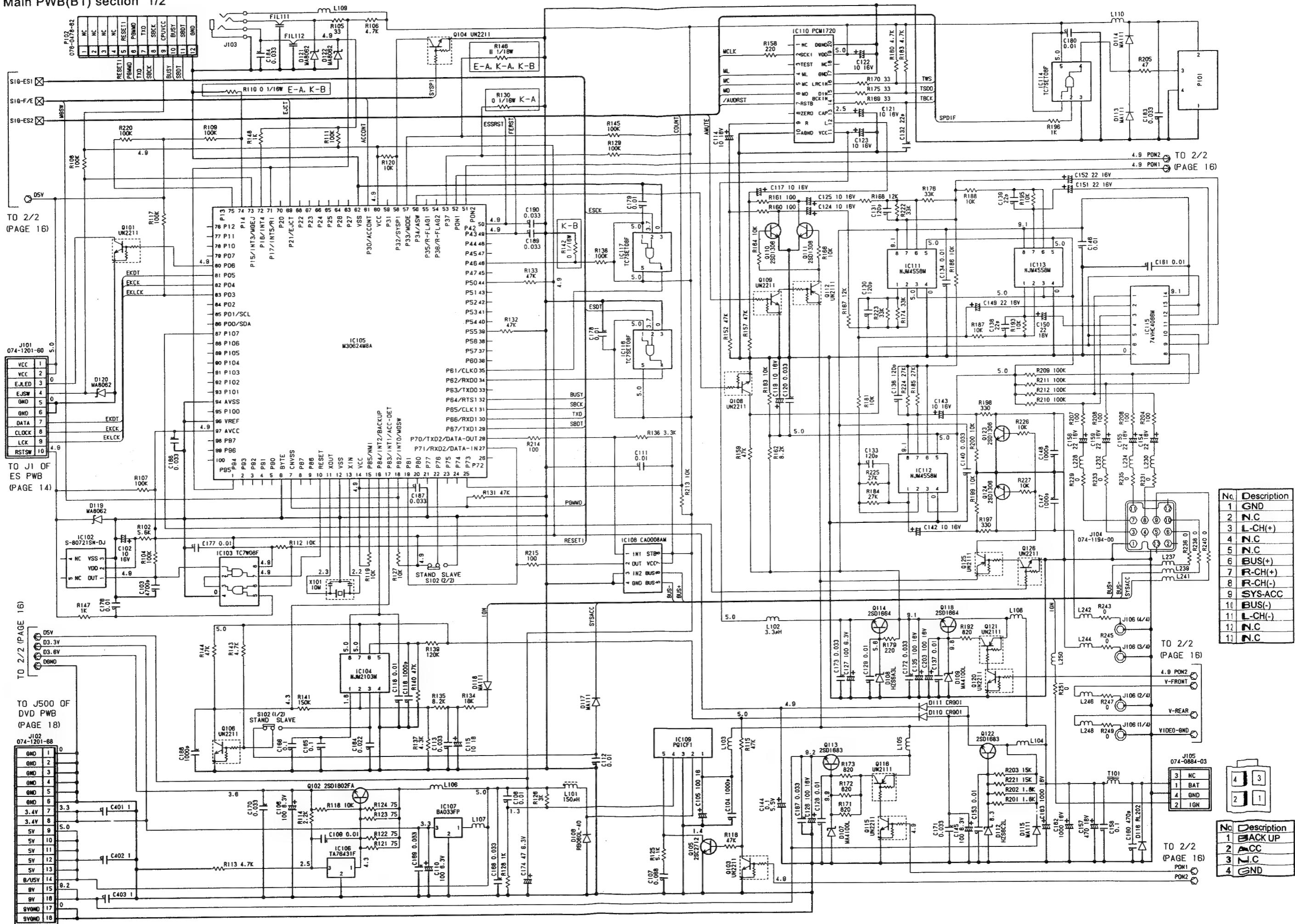
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D501	001-0563-00	GL380	S501	013-7413-50	SPVG12	S502	013-7413-50	SPVG12
Q501	060-0252-01	PT4850F						

■ CIRCUIT DIAGRAM

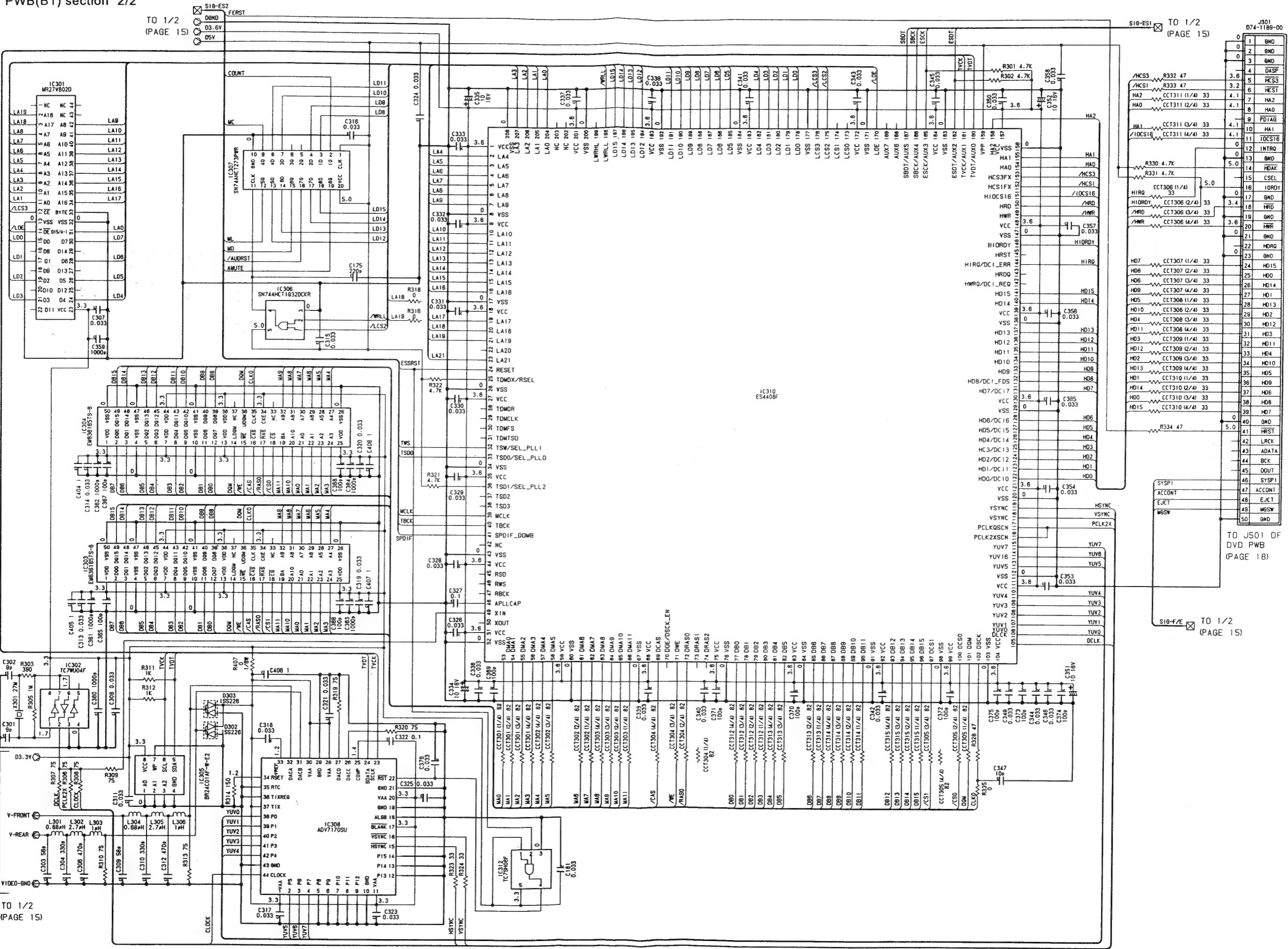
Escutcheon PWB section(B2)



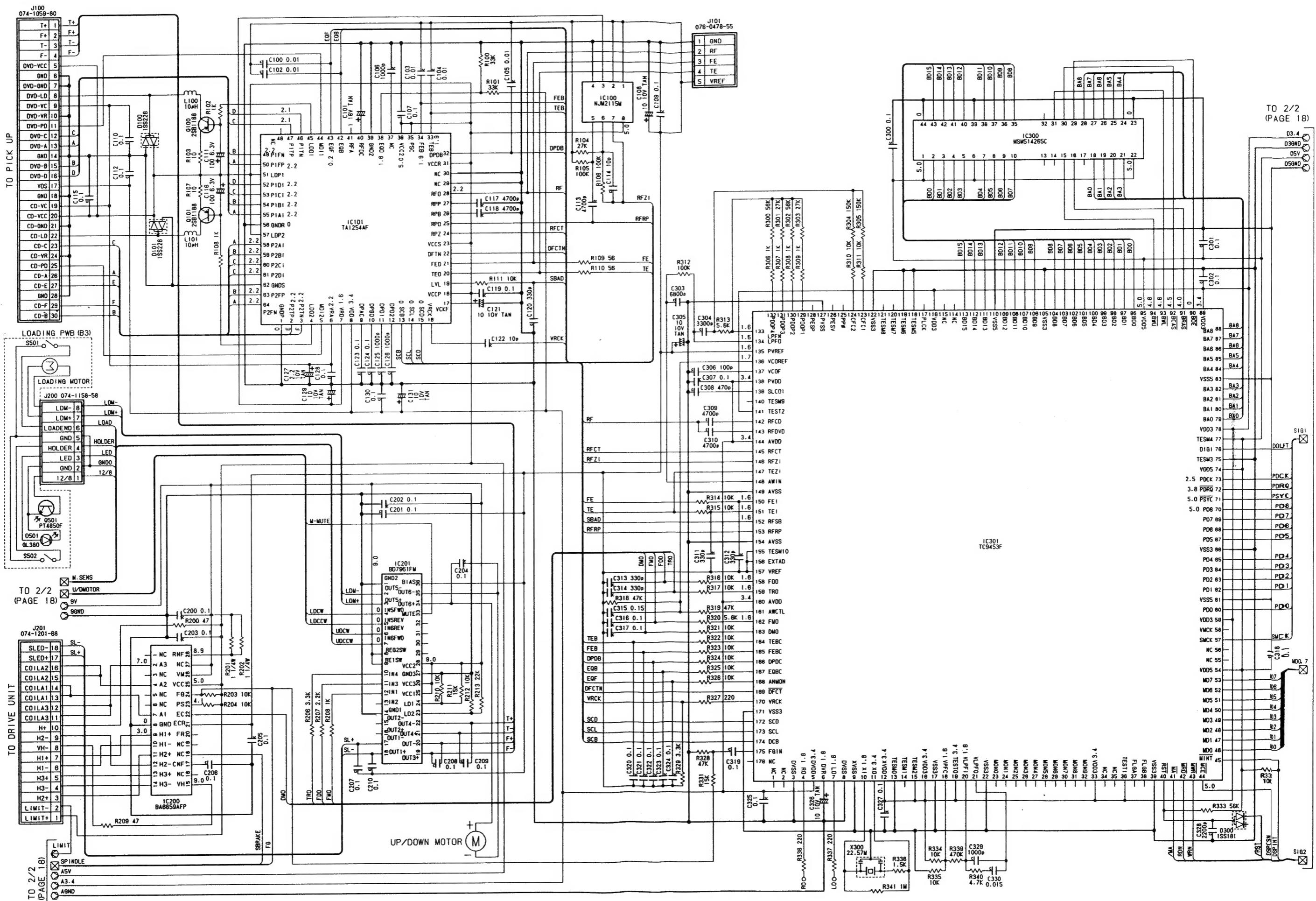
Main PWB(B1) section 1/2



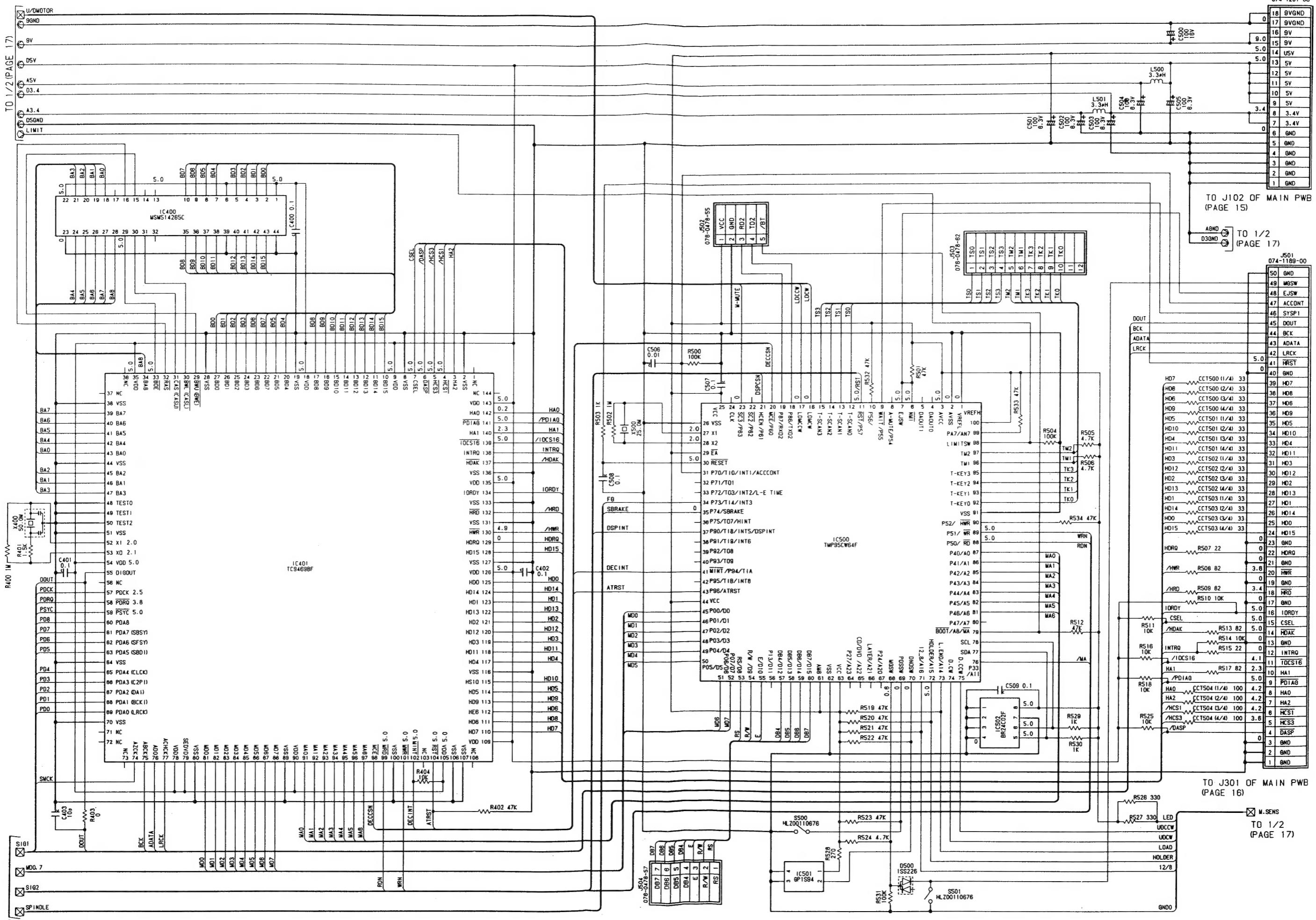
Main PWB(B1) section 2/2



DVD PWB(B3) section 1/2

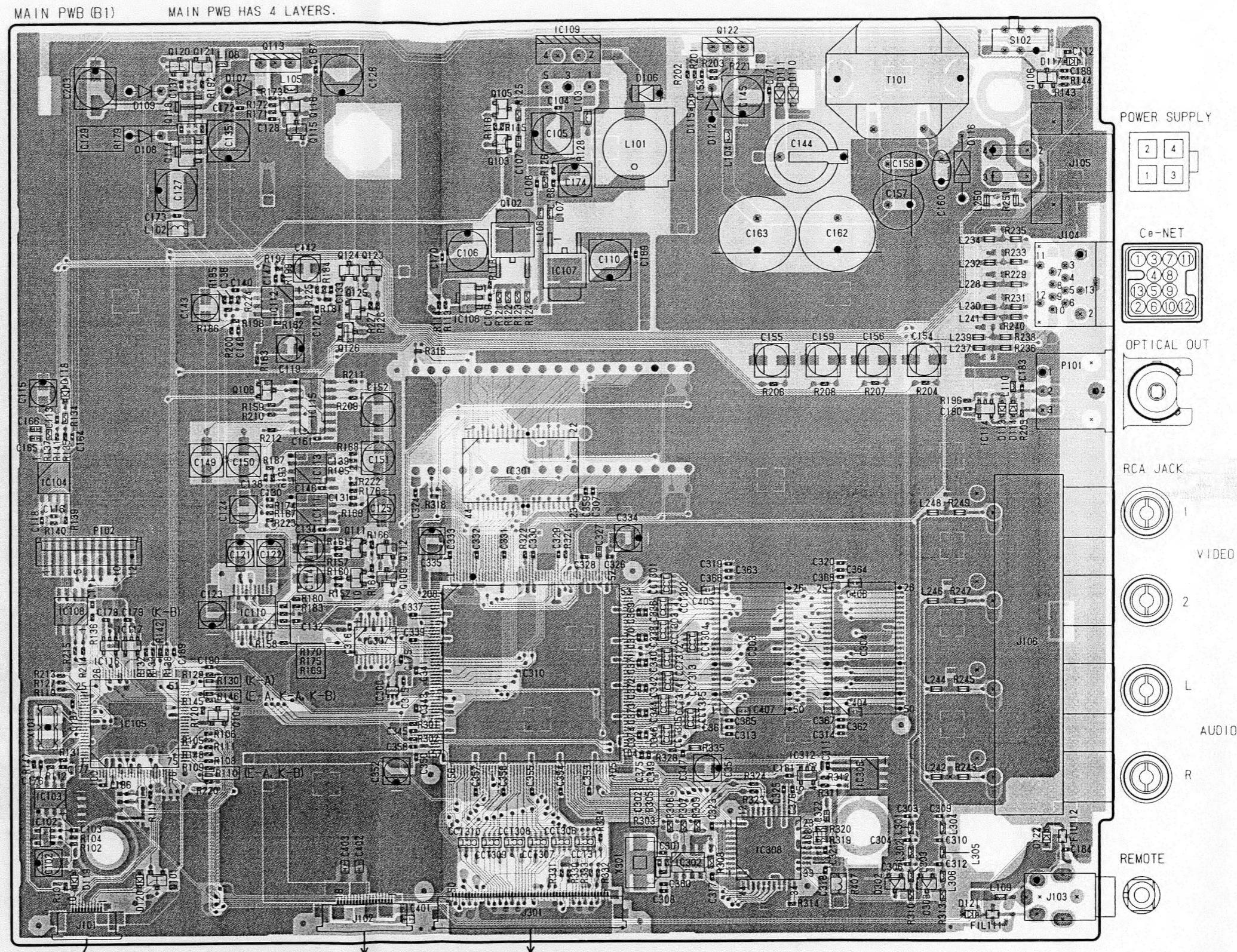
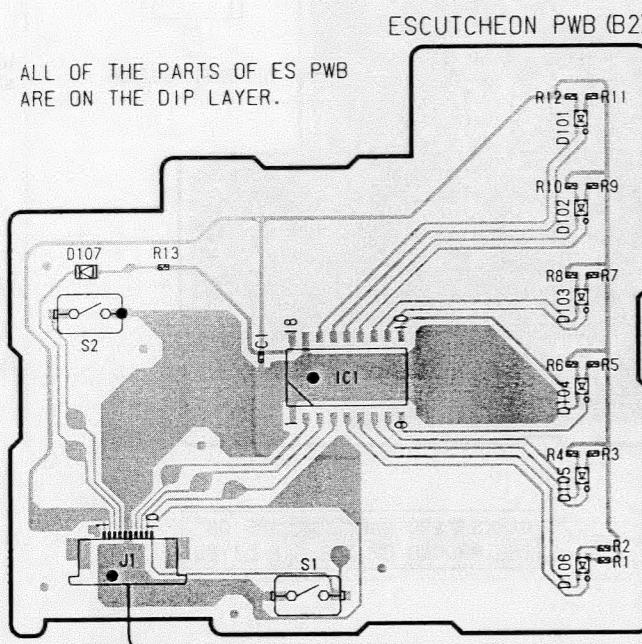
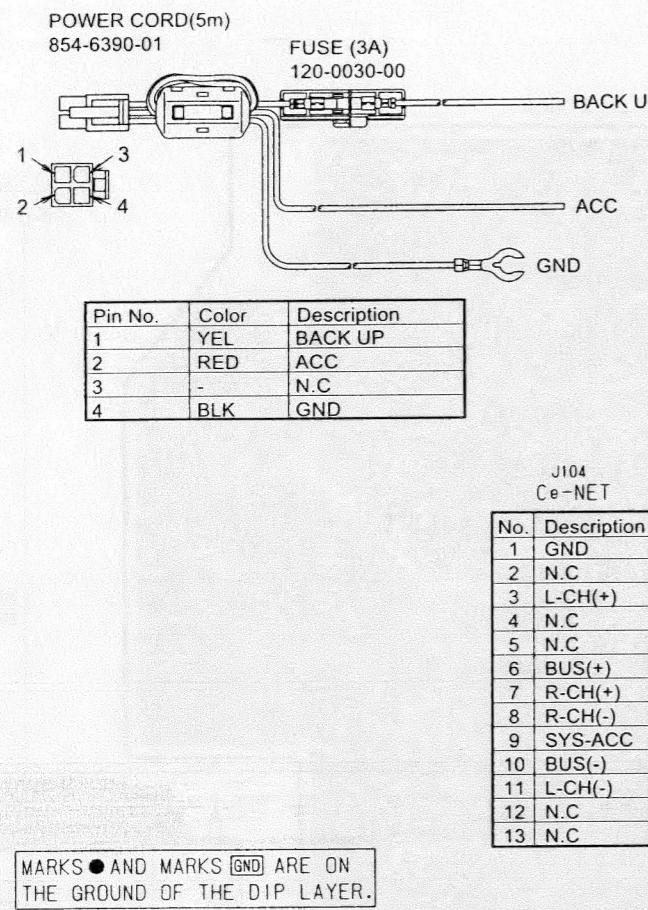


DVD PWB(B3) section 2/2



■ PRINTED WIRING BOARD

Main PWB(B1) / Escutcheon PWB(B2) section



TO J500 OF DVD PWB (PAGE 20) TO J501 OF DVD PWB (PAGE 21)

108 116
104 101
103
102

117	110	112	115	30
105			113	
			111	
101	120	121	104	108
				113
				124
				1
			118	116
				125
			114	115
				126
				111
				110

309 109
301 107
310

302 303 308 312 301
301

4
5

